

Ⓢ Pending

 Active

DL1: (17660) 455/21 455/63 455/37.1 455/303 455/427 455/101 455/562.1 455/63.4 37

- L2: (695) L1 and (interference near 8 "adjacent channels")

~~Q~~ L3: (45) L2 and ("interference component" AND "adjacent channels")

- Q4: (3) L2 and ("interference component" AND "adjacent channels").clm.

LS: (1) 3 and (block near2 coding).clm.

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S4: (0) S3 and (artificial\$2 near8 interference)

S3: (51) S2 and interference

- S2: (56) S1 and "block coding"

- S5: (2) S3 and (artificial\$2 near8 interference)

• S1: (613) carrier and "channel coefficient"

• S6: (5) S3 and artificial\$2

- S13: (40) S12 and "channel coefficient"

S12: (3128) interference near8 "adjacent channel"

☛ S22: (13) S18 and component

- S24: (0) S23 and (block near3 coding)

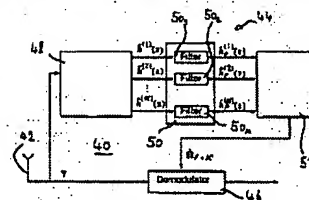
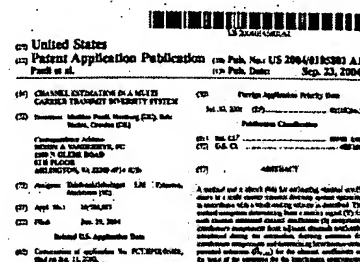
- S19: (0) S18 and "interference component"

- S14: (22) S13 and diversity

- S10: (1) S7 and "channel coefficient"

• S9: (1) S7 and interference

ELECTRICITY



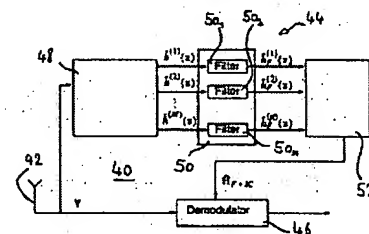
	U	1	Document ID	Issue Date	Pages	Title	Current OR	Current	Ref	Inventor
1	<input type="checkbox"/>	<input type="checkbox"/>	US 20040185801 A1	20040923	16	Channel estimation in a multi-carrier transmit diversity system	455/101			Pauli, Mathias et al.

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✓ L6: (1) 4 and "channel coefficient".clm.

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– S14: (22) S13 and diversity

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	U	I	Document ID	Issue Date	Pages	Title	Current OR	Current	Ref	Inventor
1	<input type="checkbox"/>	<input type="checkbox"/>	US 20040185801 A1	20040923	16	Chamel estimation in a multi carrier transmit diversity syste	455/101			Pauli, Mathias et al.

- ✖ L1: (3167) interference.near8 "adjacent channel"
- ✖ L2: (42) L1 and "channel coefficient"
- ✖ L3: (23) L2 and diversity
- ✖ L4: (13) L3 and coding
- ✖ L5: (13) L4 and (estimate or estimation)
- ✖ L6: (13) L5 and component
- ✖ L7: (13) L6 and (filter\$3 or interpolation)
- ✖ L8: (0) 7 and (block.near2 coding)
- ✖ L9: (0) 7 and ("interference component" near8 "adjacent channels")
- ✖ L10: (2) 2 and ("interference component" near8 "adjacent channels")
- ✖ L11: (2) 1 and "interference compensated estimates"
- ✖ L12: (17660) 455/21 455/63 455/37.1 455/303 455/427 455/101 455/562.1 455/101
- ✖ L13: (695) 12 and (interference.near8 "adjacent channels")
- ✖ L15: (1) 14 and "interference compensated estimates"
- ✖ L14: (7) 13 and ("interference component" near8 "adjacent channels")

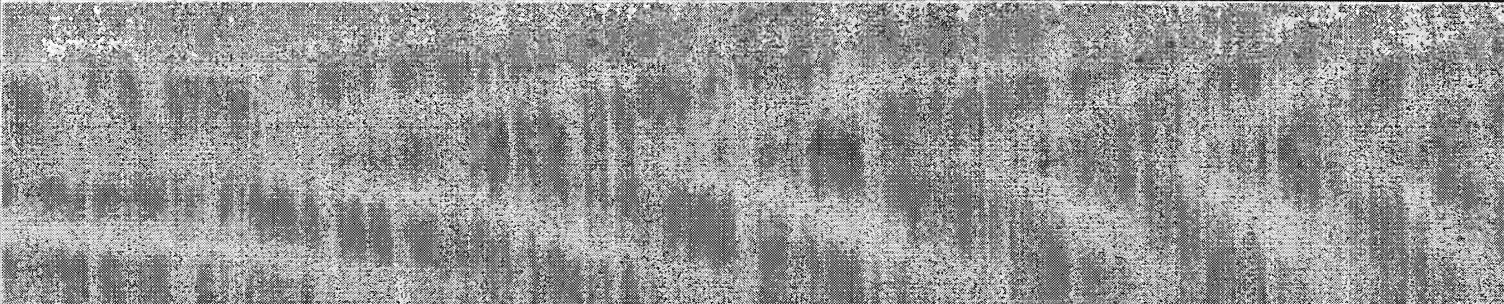
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455/21 455/63 455/37.1 455/303 455/427
455/101 455/562.1 455/63.4 375/347-349
375/346 375/348.342/359 342/367 342/399.
375/340 375/349 370/480 375/341 375/346

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	U	1	Document ID	Issue Date	Pages	Title	Current OR	Current Ret	Inventor
									

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- ☒ L1: (3167) interference near8 "adjacent channel"
- ☒ L2: (42) L1 and "channel coefficient"
- ☒ L3: (23) L2 and diversity
- ☒ L4: (13) L3 and coding
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- ☒ L8: (0) 7 and (block near2 coding)
- ☒ L9: (0) 7 and ("interference component" near8 "adjacent channels")
- ☒ L10: (2) 2 and ("interference component" near8 "adjacent channels")
- ☒ L11: (2) 1 and "interference compensated estimates"
- ☒ L12: (17660) 455/21 455/63 455/37.1 455/303 455/427 455/101 455/562.1 45
- ☒ L13: (695) 12 and (interference near8 "adjacent channels")
- ☒ L15: (1) 14 and "interference compensated estimates"
- ☒ L14: (7) 13 and ("interference component" near8 "adjacent channels")

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13 and ("interference component" near8 "adjacent channels")

	U	1	Document ID	Issue Date	Pages	Title	Current OR	Current	Ret	Inventor
3	<input type="checkbox"/>	<input type="checkbox"/>	US 6937871 B2	20050830	10	Anti-demodulator circuit, filtering device and demodula	455/501	375/323; 375/324;		Dick; Burkhard
4	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 6597750 B1	20030722	12	Opposite polarization interference cancellation in sat	375/347	375/349; 375/350		Knutson, Paul Gotha et al.
5	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 6256486 B1	20010703	29	Method and apparatus for measuring co-channel interfer	455/296	455/450; 455/67.13		Barany, Peter A. et al.
6	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 6148045 A	20001114	18	Digital broadcast receiver	375/344	375/329		Taura; Kenichi et al.
7	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 6028900 A	20000222	17	Digital broadcast receiver	375/344	329/304; 375/260;		Taura; Kenichi et al.

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- L1: (3167) interference near8 "adjacent channel"
- L2: (42) L1 and "channel coefficient"
- L3: (23) L2 and diversity
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- ✗ S4: (0) S3 and (artificial\$2 near8 interference)
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- ✗ S1: (613) carrier and "channel coefficient"
- ✗ S6: (5) S3 and artificial\$2

<p>United States Patent Application Publication First et al.</p>		<p>(US Pub. No.) US 2004/0185801 A1 (Int. Pub. Date) Sep. 23, 2004</p>	
<p>(54) CHANNEL ESTIMATION IN A MULTI-CARER TRANSMIT DIVERSITY SYSTEM</p>		<p>(36) Foreign Application Priority Date At 20, EXT (27) 0111200.3</p>	
<p>(72) Invention: Matthew Pratt, Moultrie (28); Eric Swanson, Denver (37)</p>		<p>Publication Classification (51) Int. Cl.⁷ H04B 1/12 (52) U.S. Cl. 454/218</p>	
<p>Correspondence Address: HEDIN & VANDELVER, PC 1200 N. CLARK ROAD 8TH FLOOR ARLINGTON, VA 22201-4714 (35)</p>		<p>ABSTRACT</p>	
<p>(57) Abstract: A method and a device (40) for estimating channel coefficients in a multi-carrier transmit diversity system according to a carrierless multi-carrier system is described. The method comprises: transmitting from a transmit antenna (42) in each channel estimate channel coefficients (C) using transmit antennas from different channels (44) simultaneously during the estimation. Sample estimates for channel coefficients and estimated interference-decoupled estimates (E_{0,n}) for the channel coefficients are the basis of an estimator for the interference decoupling.</p>			
<p>(58) Classification of Application: H04B 1/12, H04B 1/10, H04B 1/06, H04B 1/04, H04B 1/02, H04B 1/01, H04B 1/00, H04B 1/03, H04B 1/04, H04B 1/05, H04B 1/06, H04B 1/07, H04B 1/08, H04B 1/09, H04B 1/10, H04B 1/11, H04B 1/12, H04B 1/13, H04B 1/14, H04B 1/15, H04B 1/16, H04B 1/17, H04B 1/18, H04B 1/19, H04B 1/20, H04B 1/21, H04B 1/22, H04B 1/23, H04B 1/24, H04B 1/25, H04B 1/26, H04B 1/27, H04B 1/28, H04B 1/29, H04B 1/30, H04B 1/31, H04B 1/32, H04B 1/33, H04B 1/34, H04B 1/35, H04B 1/36, H04B 1/37, H04B 1/38, H04B 1/39, H04B 1/40, H04B 1/41, H04B 1/42, H04B 1/43, H04B 1/44, H04B 1/45, H04B 1/46, H04B 1/47, H04B 1/48, H04B 1/49, H04B 1/50, H04B 1/51, H04B 1/52, H04B 1/53, H04B 1/54, H04B 1/55, H04B 1/56, H04B 1/57, H04B 1/58, H04B 1/59, H04B 1/60, H04B 1/61, H04B 1/62, H04B 1/63, H04B 1/64, H04B 1/65, H04B 1/66, H04B 1/67, H04B 1/68, H04B 1/69, H04B 1/70, H04B 1/71, H04B 1/72, H04B 1/73, H04B 1/74, H04B 1/75, H04B 1/76, H04B 1/77, H04B 1/78, H04B 1/79, H04B 1/80, H04B 1/81, H04B 1/82, H04B 1/83, H04B 1/84, H04B 1/85, H04B 1/86, H04B 1/87, H04B 1/88, H04B 1/89, H04B 1/90, H04B 1/91, H04B 1/92, H04B 1/93, H04B 1/94, H04B 1/95, H04B 1/96, H04B 1/97, H04B 1/98, H04B 1/99, H04B 1/100, H04B 1/101, H04B 1/102, H04B 1/103, H04B 1/104, H04B 1/105, H04B 1/106, H04B 1/107, H04B 1/108, H04B 1/109, H04B 1/110, H04B 1/111, H04B 1/112, H04B 1/113, H04B 1/114, H04B 1/115, H04B 1/116, H04B 1/117, H04B 1/118, H04B 1/119, H04B 1/120, H04B 1/121, H04B 1/122, H04B 1/123, H04B 1/124, H04B 1/125, H04B 1/126, H04B 1/127, H04B 1/128, H04B 1/129, H04B 1/130, H04B 1/131, H04B 1/132, H04B 1/133, H04B 1/134, H04B 1/135, H04B 1/136, H04B 1/137, H04B 1/138, H04B 1/139, H04B 1/140, H04B 1/141, H04B 1/142, H04B 1/143, H04B 1/144, H04B 1/145, H04B 1/146, H04B 1/147, H04B 1/148, H04B 1/149, H04B 1/150, H04B 1/151, H04B 1/152, H04B 1/153, H04B 1/154, H04B 1/155, H04B 1/156, H04B 1/157, H04B 1/158, H04B 1/159, H04B 1/160, H04B 1/161, H04B 1/162, H04B 1/163, H04B 1/164, H04B 1/165, H04B 1/166, H04B 1/167, H04B 1/168, H04B 1/169, H04B 1/170, H04B 1/171, H04B 1/172, H04B 1/173, H04B 1/174, H04B 1/175, H04B 1/176, H04B 1/177, H04B 1/178, H04B 1/179, H04B 1/180, H04B 1/181, H04B 1/182, H04B 1/183, H04B 1/184, H04B 1/185, H04B 1/186, H04B 1/187, H04B 1/188, H04B 1/189, H04B 1/190, H04B 1/191, H04B 1/192, H04B 1/193, H04B 1/194, H04B 1/195, H04B 1/196, H04B 1/197, H04B 1/198, H04B 1/199, H04B 1/200, H04B 1/201, H04B 1/202, H04B 1/203, H04B 1/204, H04B 1/205, H04B 1/206, H04B 1/207, H04B 1/208, H04B 1/209, H04B 1/210, H04B 1/211, H04B 1/212, H04B 1/213, H04B 1/214, H04B 1/215, H04B 1/216, H04B 1/217, H04B 1/218, H04B 1/219, H04B 1/220, H04B 1/221, H04B 1/222, H04B 1/223, H04B 1/224, H04B 1/225, H04B 1/226, H04B 1/227, H04B 1/228, H04B 1/229, H04B 1/230, H04B 1/231, H04B 1/232, H04B 1/233, H04B 1/234, H04B 1/235, H04B 1/236, H04B 1/237, H04B 1/238, H04B 1/239, H04B 1/240, H04B 1/241, H04B 1/242, H04B 1/243, H04B 1/244, H04B 1/245, H04B 1/246, H04B 1/247, H04B 1/248, H04B 1/249, H04B 1/250, H04B 1/251, H04B 1/252, H04B 1/253, H04B 1/254, H04B 1/255, H04B 1/256, H04B 1/257, H04B 1/258, H04B 1/259, H04B 1/260, H04B 1/261, H04B 1/262, H04B 1/263, H04B 1/264, H04B 1/265, H04B 1/266, H04B 1/267, H04B 1/268, H04B 1/269, H04B 1/270, H04B 1/271, H04B 1/272, H04B 1/273, H04B 1/274, H04B 1/275, H04B 1/276, H04B 1/277, H04B 1/278, H04B 1/279, H04B 1/280, H04B 1/281, H04B 1/282, H04B 1/283, H04B 1/284, H04B 1/285, H04B 1/286, H04B 1/287, H04B 1/288, H04B 1/289, H04B 1/290, H04B 1/291, H04B 1/292, H04B 1/293, H04B 1/294, H04B 1/295, H04B 1/296, H04B 1/297, H04B 1/298, H04B 1/299, H04B 1/300, H04B 1/301, H04B 1/302, H04B 1/303, H04B 1/304, H04B 1/305, H04B 1/306, H04B 1/307, H04B 1/308, H04B 1/309, H04B 1/310, H04B 1/311, H04B 1/312, H04B 1/313, H04B 1/314, H04B 1/315, H04B 1/316, H04B 1/317, H04B 1/318, H04B 1/319, H04B</p>			

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1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 20040185801 A1	20040923	16	Channel estimation in a multi-carrier transmit diversity syste	455/101			Pauli, Mathias et al.
2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	EP 1282245 A1	20030205	23	Channel estimation in a multi-carrier transmit diversity syste				PAULI, MATHIAS et al.